

Amendments to the claims:

1. (currently amended) An inductor comprising:
a polyiron coil form having a conical portion with a tip;
an integrated contact disposed on the tip of the coil form; and
an inductor coil wound around the polyiron coil form and electrically
coupled to the integrated contact.
2. (canceled)
3. (currently amended) The inductor of claim 1 wherein the integrated contact
comprises a plated tip portion of the polyiron coil form.
4. (currently amended) ~~The inductor of claim 3~~ An inductor comprising:
a coil form having a conical portion with a tip;
an integrated contact comprising a plated tip portion disposed on the tip of
the coil form comprising wherein the plated tip portion of the coil form comprises a first
gold layer, a nickel layer disposed on the first gold layer, and a second gold layer disposed
on the nickel layer; and
an inductor coil wound around the coil form and electrically coupled to the
integrated contact.
5. (original) The inductor of claim 4 wherein the coil form comprises polyiron.
6. (currently amended) The inductor of claim 3 further comprising a groove in the
plated portion of the polyiron coil form.
7. (currently amended) The inductor of claim 3 wherein an end of the inductor coil
is soldered to the plated tip portion of the polyiron coil form.
8. (original) The inductor of claim 7 wherein the inductor coil is wound not more
than one turn around the plated portion of the polyiron coil form.

9. (original) The inductor of claim 1 wherein the inductor coil has a narrow end with an inside diameter, an outside diameter of the integrated contact being essentially equal to the inside diameter of the narrow end of the inductor coil.

10. (currently amended) The inductor of claim 1 wherein the integrated contact has a hemispherical radius not greater than 250 microns.

11. (original) An inductor comprising:
a polyiron coil form having a conical portion and a plated tip portion; and
an inductor coil wound around the conical portion of the coil form wherein an end of the inductor coil is soldered to the plated tip portion.

12. (currently amended) ~~The inductor of claim 11~~ An inductor comprising:
a polyiron coil form having a conical portion and a plated tip portion
comprising wherein the plated tip portion of the coil form comprises a gold barrier layer proximate to the polyiron coil form, a nickel layer disposed on the gold barrier layer, and a gold layer disposed on the nickel layer; and
an inductor coil wound around the conical portion of the coil form wherein
an end of the inductor coil is soldered to the plated tip portion.

13. (currently amended) The inductor of claim 11 further comprising a groove in the plated tip portion of the polyiron coil form, the end of the inductor coil being soldered in the groove of the plated tip portion.

14. (currently amended) The inductor of claim 11 wherein the inductor coil is wound not more than one turn around the plated portion of the polyiron coil form.

15. (currently amended) The inductor of claim 11 wherein the plated tip portion has a hemispherical radius not greater than 250 microns.

16. (original) An inductor comprising:

a polyiron coil form having a conical portion and a plated tip portion with a groove; and

an inductor coil wound around the conical portion of the coil form, and end of the inductor coil being soldered to in the groove of the plated tip portion, wherein the inductor coil is wound not more than one turn around the plated portion of the coil form.

17. (original) The inductor of claim 16 wherein the plated tip portion has a radius not greater than 250 microns.